


# SAFETY DATA SHEET

## Quarry and Sand Products

### SECTION 1 - IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT:	QUARRY AND SAND PRODUCTS
OTHER NAMES:	Crushed Rock, Aggregates, Rubble, Quartz Sand
RECOMMENDED USE:	Quarry products are used for building and construction projects, including base material for roads and car parks.
COMPANY NAME & DETAILS:	Monk Resource Management Pty Ltd ATF Monk Unit Trust Trading as <b>Monk Quarry Products</b> ABN 94 769 450 681      ACN: 603 824 246
ADDRESS:	130 Quarry Road, Langwarrin, Victoria, 3910
TELEPHONE NUMBER:	(03) 9111 1751
EMERGENCY PHONE NUMBER:	Poisons Information Centre      13 11 26

### SECTION 2 - HAZARD IDENTIFICATION

HAZARD CLASSIFICATION:	<p><b>HAZARDOUS. This product contains crystalline silica. Crystalline silica is classified as Hazardous according to criteria of Safe Work Australia.</b></p> <ul style="list-style-type: none"> <li>Dust in/on the supplied product or created when the product is cut, drilled, abraded or crushed may contain crystalline silica some of which may be respirable (small enough to reach deep into the lungs when breathed in).</li> </ul>
DANGEROUS GOODS CLASS:	<b>NON-DANGEROUS. Not classified as Dangerous Goods according to the ADG Code, IMDG or IATA</b>
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:	<p><b>GHS classifications:</b> Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2</p> <p><b>Label elements</b></p>  <p>Eye irritation Category 2B Organ Damage Category 2</p>
WARNINGS USING GHS CRITERIA	<p><b>Hazard Statement(s)</b> H373: May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation)</p> <p><b>Prevention Statement(s)</b> P260: Do not breathe dust P272: Contaminated work clothing should not be allowed out of the workplace.</p>

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	<p><b>Response Statement(s)</b> P314 Get medical advice/attention if you feel unwell. P363 – Wash contaminated clothing before reuse.</p> <p><b>Storage Statement(s)</b></p> <p><b>Disposal Statement(s)</b> P501 Dispose of contents/container in accordance with relevant regulations.</p>
OTHER HAZARDS:	<p>Quarry products are supplied from naturally occurring materials excavated and processed in our hard rock quarry. The various quarry products are likely to contain high levels silica and may contain varying amounts of crystalline silica.</p> <p>The hazard information provided in this Safety Data Sheet applies to the dusts within quarry products containing silica and particularly inhalable dust particles with a diameter less than 75 microns.</p>

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME:	CAS	Proportion (w/w)
CRYSTALLINE SILICA (SiO <sub>2</sub> )	14808-06-7	Up to 75%
OTHER INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	Not required	Balance

### SECTION 4 - FIRST AID MEASURES

SWALLOWED:	Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention.
EYE:	Flush thoroughly with flowing water, while holding eyelids open, for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention.
SKIN:	Remove heavily contaminated clothing. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent redness, irritation or burning of the skin
INHALED:	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation persists seek medical attention.
FIRST AID FACILITIES	Eye wash and normal washroom facilities.
ADVICE TO DOCTOR:	Treat symptomatically or consult a Poisons Information Centre.

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### SECTION 5 - FIRE FIGHTING MEASURES

PRODUCT FLAMMABILITY:	Non-flammable or combustible.
HAZARD FROM COMBUSTION PRODUCTS:	None.
SUITABLE EXTINGUISHING MEDIA:	Not applicable.
SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS	None
HAZCHEM CODE:	None allocated.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES:	No special precautions required.
METHODS FOR CLEAN UP:	<ul style="list-style-type: none"> <li>Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure.</li> <li>Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill clean-up if conditions are dusty.</li> </ul>

### SECTION 7 - HANDLING AND STORAGE


PRECAUTIONS FOR SAFE HANDLING:	Avoid breathing dust. Respirable dusts can be generated during processing, handling and storage. Use control measures such as ventilation, enclosure of materials, covered loads on trucks, and wetting down material while in use and PPE.
CONDITIONS FOR SAFE STORAGE:	When stockpiling and handling large quantities of quarry or sand products, care should be taken to avoid steep faces on the stockpile which can fall without warning.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS:	<p><b>Safe Work Australia formally ASCC and National Occupational Exposure Standard (NES)</b></p> <ul style="list-style-type: none"> <li><b>Dust must be kept to a minimum to ensure respirable dust level remains below NES.</b></li> <li>Crystalline Silica (Quartz): 0.05 mg/m<sup>3</sup> TWA (time weighted average – 8 hour) as respirable dust.</li> <li>Total dust (of any type, or particle size): 10 mg/m<sup>3</sup> TWA.</li> </ul>
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ENGINEERING CONTROLS:	Avoid generating dust. Any activities which may generate dust must be performed in a well-ventilated space. Mechanical ventilation or local exhaust ventilation must be used if levels of respirable dust approach the NES. If dust generation cannot be avoided, personal respiratory protection is required.
PERSONAL PROTECTIVE EQUIPMENT:	<p><b>Skin:</b> Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.</p> <p>Wear loose comfortable clothing and gloves (standard duty leather or equivalent compliant to AS/NZS 2161). Remove all contaminated clothing. Wash clothes regularly and separate from other clothes. Do not contaminate the home environment with dusty work clothes and shoes. Do not shake out work clothes before laundering.</p> <p><b>Eyes:</b> Safety goggles or splash resistant spectacles (compliant to AS/NZS 1337) or a face shield must be worn.</p> <p><b>Respiratory:</b> Where engineering and handling controls are not enough to minimize exposure to total dust and to respirable crystalline silica, personal respiratory protection must be worn. Respiratory protection used must conform to AS/NZS 1716 and be used in accordance with AS/NZS 1715. An approved particulate “dust mask”, either class P1 or P2, may provide the required minimum protection factor for the ambient dust level in most cases. Where high levels of dust are encountered, more efficient cartridge-type or powered respirators or supplied-air helmets may be necessary. Use only respirators that bear the Australian Standards mark and are fitted and maintained accordingly.</p> <div style="text-align: center;">  </div>

### SECTION 9 - PHYSICAL DESCRIPTION AND CHEMICAL PROPERTIES

APPEARANCE:	Blue/grey and brown rock. Size varies from fines to >100mm.
ODOUR:	Normally no odour.
PH	3.0-10.0
DENSITY:	approx. 2.2 T/m <sup>3</sup>

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VAPOUR PRESSURE:	Not applicable.	VAPOUR DENSITY:	Not applicable.
BOILING POINT:	Not applicable.	FREEZING POINT	Not applicable.
SOLUBILITY IN WATER:	Insoluble.	FLASH POINT:	Not applicable.
FLAMMABILITY LIMITS:	Not applicable.	IGNITION TEMPERATURE:	Not applicable.
PARTICLE SIZE:	A proportion of the dust may be respirable (below 10µm) and if it becomes airborne constitutes an exposure if inhaled.		

### SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Chemically stable.
CONDITIONS TO AVOID:	Dust generation.
INCOMPATIBLE MATERIALS:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.
HAZARDOUS REACTIONS:	None known.

### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>ACUTE (SHORT TERM) HEALTH EFFECTS:</b>	
<b>Quarry product dust is recognised to be a potential health hazard.</b> This is due to crystalline silica. People should handle these products with special care including use of all recommended protective equipment.	
SWALLOWED:	Unlikely under normal occupational exposures. Although ingestion of small quantities of crushed rock is not known to be harmful, large quantities can cause distress to the digestive tract. Mildly abrasive to mouth and throat.
EYES:	Dust is irritating to the eyes. Exposure to dust may aggravate pre-existing eye conditions.
SKIN:	Dust may be mildly irritating and drying to the skin due to its physical characteristics. May cause abrasions, discomfort or irritations.
INHALED:	Dust is mildly irritating to the nose, throat and respiratory tract and may cause coughing, sneezing and choking depending on exposure. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated.

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<b>CHRONIC (LONG TERM) HEALTH EFFECTS:</b>	
EYES:	Dust may cause irritation and inflammation of the eyes and aggravate pre-existing eye conditions.
SKIN:	Repeated heavy contact with the dust may cause drying of the skin and can result in skin rash (dermatitis) typically affecting the hands. Over time this may become chronic and can also become infected.
INHALED:	<p>Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia.</p> <p>Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the NES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lung), including acute and/or accelerated silicosis. It may also increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the skin, joints, blood vessels and internal organs) and other auto-immune disorders.</p> <p>Inhalation of dust, including crystalline silica dust, is considered by medical authorities to increase the risk of lung disease due to tobacco smoking</p> <p>The product contains a proportion of respirable free crystalline silica in the quartz component. Crystalline silica (inhaled in the form of quartz or cristobalite from occupational sources) has been classified by The International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1).</p> <p>Safe work Australia - workplace exposure standards for airborne contaminants classifies RCS as Category 1A (Carc. 1A) -Known to have carcinogenic potential for humans.</p>
OTHER INFORMATION:	Inhalation of airborne particles from other sources in the work environment, including those from cigarette smoke, may increase the risk of respiratory diseases. It is recommended that all storage and work areas should be smoke-free zones and that other airborne contaminants should be kept to a minimum.

## SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:	Quarry Products pose no ecology risk. They are non-toxic to aquatic and terrestrial organisms and are not biodegradable.
PERSISTENCE AND DEGRADABILITY:	Quarry products are persistent and are non-degradable.
MOBILITY:	The product contains non-volatile materials that will sink in water and form a solid on the surface of the ground. Not expected to be mobile in landfill.
DUST:	Crystalline silica is non-toxic to aquatic and terrestrial organisms; is not biodegradable and is insoluble.

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### SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	<ul style="list-style-type: none"> <li>Crystalline silica itself in all common forms can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines.</li> <li>Measures should be taken to prevent dust generation during disposal and exposure and personal precautions should be observed (see above).</li> <li>Wear sufficient respiratory protection. Dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container for reuse.</li> <li>May be disposed in local landfill.</li> </ul>
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### SECTION 14 - TRANSPORT INFORMATION

UN NUMBER:	None allocated.	UN PROPERTY SHIPPING NO.:	None allocated.
PACKING GROUP:	None allocated.	CLASS AND SUBSIDIARY RISK(S):	None allocated.
SPECIAL PRECAUTIONS FOR USER:	<ul style="list-style-type: none"> <li>Trucks to use tarpaulin to cover the load (for bulk deliveries).</li> <li>No other special storage or transport requirements necessary.</li> <li>Not classified as Dangerous Goods according to ADG Code.</li> </ul>		
HAZCHEM CODE	None allocated.		

### SECTION 15 - REGULATORY INFORMATION

<ul style="list-style-type: none"> <li>Crystalline silica is classified as non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</li> <li>Crystalline silica in the form of respirable dust is classified as Hazardous according to the Safe work Australia (formerly ASCC/NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition</li> <li>Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State and Territory) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, and control of inhalation exposure below the NES</li> <li>Persons who have potential for exposure above the NES may be required by Regulations to have periodic health surveillance including Chest X-ray (see relevant State Government Regulations and SWA (ASCC/NOHSC documentation)</li> </ul>
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### SECTION 16 - OTHER INFORMATION

<b>ABBREVIATIONS AND ACRONYMS:</b>	
ACGIH	American Conference of Government Industrial Hygienists
ADG CODE	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS NUMBER	Chemical Abstracts Service Registry Number
NOHSC	National Occupational Health and Safety Commission
HAZCHEM NUMBER	An emergency action code of numbers and letters which gives information to emergency services
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
UN NUMBER	United Nations Number
<b>IMPORTANT NOTES:</b>	
1.	<p>At the date of publication, the information contained in this Safety Data Sheet is, to the best of our knowledge, accurate and is given in good faith but no warranty expressed or implied is made. The suggested procedures are not necessarily all inclusive nor fully adequate for all circumstances in which the product may be used. Users are advised to make their own determination as to the suitability of the information in relation to their particular purposes and specific circumstances.</p> <p>We accept no responsibility for any resultant loss or damage as a result of any person acting or refraining from action as a result of the information provided in this document as it may be applied under conditions beyond our control. Where the information provided discloses a potential hazard or hazardous ingredient, adequate warning should be provided to employees and users and appropriate precautions taken to ensure safe systems of work are in place.</p>
2.	If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact <b>Monk Quarry Products</b> on +61 3 9111 1751.
3.	<b>Monk Quarry Products</b> reserves the right to make change to safety data sheets without notice.

END SAFETY DATA SHEET